

# THE ANNALS

AND

## MAGAZINE OF NATURAL HISTORY.

[EIGHTH SERIES.]

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“..... per litora spargite muscum,  
 Naiades, et circum vitreos considite fontes:  
 Pollice virgineo teneros hic carpite flores:  
 Floribus et pietum, divæ, replete canistrum.  
 At vos, o Nymphæ Craterides, ite sub undas;  
 Ite, recurvato variata corallia trunco  
 Vellite muscosis e rupibus, et mihi conchas  
 Ferte, Deæ pelagi, et pingui conchyliis succo.”  
*N. Parthenii Giannettasi, Ecl. 1.*

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No. 67. JULY 1913.

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I. — *Descriptions of new Species of Pyralidæ of the Sub-family Pyraustinaæ.* By Sir GEORGE F. HAMPSON, Bart., F.Z.S., &c.

[Continued from vol. xi. p. 530.]

(4) *Exeristis argyresthalis*, sp. n.

♂. Head, thorax, and abdomen brownish white. Fore wing brownish white, the costal edge golden brown to beyond middle; a slight subbasal silvery line; an indistinct yellowish antemedial band, edged by waved silvery lines; a round yellowish spot in middle of cell defined by silver, and a similar discoidal spot constricted at middle; a postmedial yellowish and silvery band defined on each side by fine brown lines, slightly incurved below costa and oblique below vein 4, with some small brown and silvery somewhat dentate marks beyond it towards apex; a fine dark terminal line with two points at middle; cilia whitish, with a fine brown line through them. Hind wing ochreous white tinged with brown towards termen; cilia white.

*Hab.* N. AUSTRALIA, Port Darwin (*Buckland*), 1 ♂ type. *Exp.* 16 mm.

(5) *Criophthona aridalis*, sp. n.

♀. Head and thorax ochreous tinged with brown; palpi rufous, white below; abdomen ochreous white. Fore wing ochreous white irrorated with dark brown and tinged with rufous towards costa, the costal edge white; a faint dark discoidal spot; postmedial line dark, rather diffused, excurved from costa to vein 3, then retracted to below angle of cell; cilia white, with dark lines near base and at tips. Hind wing white; the underside with the costal area irrorated with brown, a slight dark spot at upper angle of cell and punctiform postmedial line from costa to vein 3.

*Hab.* CAFE COLONY, Zuurberg (*Bairstow*), 1 ♀ type. *Exp.* 20 mm.

(7 a) *Metasia arida*, sp. n.

Frons slightly produced.

Head, thorax, and abdomen grey-white tinged with brown. Fore wing grey-white tinged with brown; an indistinct curved antemedial brown line; postmedial line brown, slightly sinuous towards costa, excurved from discal fold to below vein 3, then bent inwards to below angle of cell, and slightly sinuous to inner margin; a terminal series of dark points. Hind wing grey-white tinged with brown; postmedial line slight, brown, excurved from discal fold to below vein 3, then obsolete; a terminal series of dark points.

*Hab.* SIERRA LEONE (*Clements*), 1 ♀; N. NIGERIA. Borgu, Yelwa Lake (*Migeod*), 1 ♀ type. *Exp.* 14 mm.

(7 b) *Metasia eremialis*, sp. n.

Frons produced to a long process rounded at extremity.

♂. Head, thorax, and abdomen white mixed with some brown; palpi and frontal process at sides dark brown. Fore wing white sparsely irrorated with brown, the costal area tinged with red-brown; an indistinct obliquely curved antemedial brown line; a brown annulus in middle of cell and elliptical discoidal annulus; postmedial line brown, straight from costa to vein 2, then retracted to below angle of cell and again excurved; a fine brown terminal line and a line through the cilia. Hind wing white slightly irrorated with brown; postmedial line slight, brown, oblique and slightly sinuous to vein 2, then retracted to below angle of cell and excurved to inner margin; a fine brown terminal line and a line near tips of cilia.

*Hab.* TRANSVAAL, Johannesburg (*Cooke*), 1 ♂ type. *Exp.* 22 mm.

(7 c) *Metasia perirrorata*, sp. n.

Frons produced to a moderate rounded process.

♂. Head, thorax, and abdomen greyish suffused with brown; sides of palpi and frons blackish; fore tibiæ at extremity and tarsi banded with blackish. Fore wing grey thickly irrorated with brown; a dark spot at base of costa; a dark antemedial line from cell to inner margin; two blackish discoidal striæ, and a patch of dark suffusion beyond lower angle of cell; postmedial line diffused, dark brown, excurved to near termen between veins 5 and 2 with some dark suffusion on its outer side below costa; cilia with a series of small dark spots. Hind wing grey, thickly irrorated and suffused with brown.

*Hab.* N. NIGERIA, Yorubaland, Ogbomoso (*Carter*), 1 ♂ type. *Exp.* 14 mm.

(10 c) *Metasia tumidalis*, sp. n.

Abdomen of male dilated at extremity with large protrusible genital tufts.

Ochreous tinged with pale red-brown; head and front of thorax suffused with fuscous; fore tibiæ banded with black; abdomen with dorsal black spots on last two segments. Fore wing with the costal area suffused with fuscous to beyond middle; an antemedial black line very oblique from costa to below median nervure and angled inwards on vein 1; a small annulus in middle of cell and discoidal lunulate annulus; the postmedial line angled outwards below costa, inwards in discal fold, at vein 2 retracted to below end of cell, then somewhat excurved again; the terminal area suffused with fuscous; cilia ochreous with a black line through them and their tips fuscous. Hind wing with minutely waved black line from discocellulars to inner margin above tornus; the postmedial line angled outwards at vein 5 and ending on termen at vein 2; the apical area suffused with fuscous down to vein 2; a waved black terminal line and a line through the cilia.

*Hab.* N. GUINEA, Milne B., 2 ♂ type, Mailu; FERGUSSON I., 1 ♂; RON I.; GOODENOUGH I.; WOODLARK; QUEENSLAND, Cedar B. (*Meek*), 1 ♀. *Exp.* 22 mm.

(12 a) *Metasia sinuifera*, sp. n.

Frons produced to a moderate rounded process.

♂. Head and thorax grey-white irrorated with fuscous;

palpi and frons black ; antennæ ringed with blackish ; fore and mid legs blackish above. the tarsi ringed with blackish ; abdomen grey-white tinged with brown. Fore wing grey-white thickly irrorated with fuscous ; some blackish at base of costa ; antemedial line blackish, angled outwards below costa, then oblique ; a small oblique elliptical blackish discoidal annulus ; postmedial line black, incurved at discal fold, obliquely excurved to vein 2, then retracted to below angle of cell, and erect to inner margin ; a fine black terminal line and lines near base and tips of cilia. Hind wing grey-white thickly irrorated with fuscous ; a rather diffused oblique black antemedial line ; postmedial line black, obliquely excurved from discal fold to vein 2 where it is retracted, then obsolete ; a fine black terminal line and lines near base and tips of cilia.

*Hab.* TRANSVAAL, White R. (Cooke), 2 ♂ type. *Exp.* 20 mm.

(16 a) *Metasia punctimarginalis*, sp. n.

♂. Head, thorax, and abdomen whitish irrorated with brown ; palpi blackish, white below ; fore tibiæ and tarsi tinged with fuscous. Fore wing whitish tinged with brown and irrorated with fuscous, the basal half of costa fuscous, the terminal half with black striæ ; an indistinct slightly waved antemedial line ; a fuscous spot in middle of cell and another rather further from base in submedian fold ; an oblique white discoidal lunule defined at sides by black ; postmedial line excurved below costa, slightly incurved at discal fold, excurved to vein 2, then retracted to below angle of cell and again slightly excurved ; a brown terminal line with series of black points on it ; cilia brownish white with fuscous line near base. Hind wing whitish tinged with brown and irrorated with fuscous ; a black discoidal spot ; postmedial line excurved between veins 5 and 2, then retracted to below angle of cell ; a brownish terminal line with series of black points on it ; cilia brownish white with fuscous line near base.

*Hab.* BORNEO, Sarawak (Wallace), 1 ♂ type. *Exp.* 14 mm.

(24 b) *Metasia bilunalis*, sp. n.

♂. Head, tegulæ, and patagia ochreous ; palpi at sides and vertex of thorax dark brown ; pectus, legs, and abdomen ochreous. Fore wing ochreous slightly tinged with reddish

brown in parts ; an oblique blackish subbasal bar from submedian fold to inner margin ; a brown lunule defined by black in cell towards extremity confluent with a fascia below the cell angled inwards to near the subbasal bar ; an ochreous discoidal lunule defined by black except above, with two short obliquely placed black streaks below it ; a diffused brownish subterminal band, oblique towards costa, then with slight dentate black marks on it to above inner margin ; a terminal series of small dentate black marks ; cilia with a fine dark line near base. Hind wing uniform ochreous white ; cilia whitish with a slight brown line near base.

Palpi projecting about three times length of head ; fore wing very long and narrow.

*Hab.* VICTORIA, 1 ♂ type. *Exp.* 22 mm.

#### Genus GONOPIONEA, NOV.

Type, *G. albilunalis*.

Palpi porrect, projecting about the length of head, triangularly scaled, the third joint hidden in hair ; maxillary palpi dilated with scales ; frons rounded ; antennæ laminate in both sexes, strongly so in male ; hind tibiæ with the outer medial spur about half length of inner. Fore wing with the termen strongly excurved at middle, excised below apex and towards tornus ; vein 3 from before angle of cell ; 4, 5 stalked ; 6 from below upper angle ; 7 from angle, straight and well separated from 8, 9 ; 10, 11 stalked. Hind wing with vein 3 from near angle of cell ; 4, 5 stalked ; 6, 7 from upper angle, 7 strongly anastomosing with 8.

#### (1) *Gonopionea sanguiflualis*, sp. n.

♂. Head white ; palpi except below and antennæ chestnut ; thorax pale crimson ; abdomen chestnut ; pectus, legs, and ventral surface of abdomen white. Fore wing pale crimson ; the costa brown to beyond middle ; a slightly sinuous deep crimson antemedial line ; a quadrate hyaline spot in end of cell, with some dark suffusion between it and the rounded hyaline spot beyond the cell which is bounded by the dark postmedial line, obliquely sinuous from it to inner margin ; a terminal brown line ; the cilia yellow, brown at middle. Hind wing yellowish white ; the termen brown from apex to vein 2, towards which it expands into a patch.

*Hab.* JAMAICA, Moneague (*Walsingham*), 1 ♂ type, Newcastle. *Exp.* 12 mm.

(2) *Gonopionea purpurealis*, sp. n.

♂. Head and thorax purplish pink; palpi whitish at base; antennæ with the shaft whitish above; pectus and legs white, the fore tibiæ and tarsi tinged with pink on inner side; abdomen purplish pink, the ventral surface white. Fore wing purplish pink; an oblique triangular yellow patch from middle of costa to just beyond the cell with whitish lunule on its lower part, the costa beyond it brown, yellow before apex; cilia yellow, dark brown at apex and middle. Hind wing white; the termen suffused with purplish pink, running inwards at vein 2 half way to cell; cilia white.

*Hab.* W. COLOMBIA, S. Antonio (*Palmer*), 1 ♂ type. *Exp.* 22 mm.

(3) *Gonopionea albilunalis*, sp. n.

Head, thorax, and abdomen pale reddish brown; frons whitish; pectus, legs, and ventral surface of abdomen white; fore tarsi with the terminal joint black. Fore wing pale reddish brown with a purple gloss; a wavy black antemedial line from cell to inner margin; a white discoidal lunule, defined by black except above where it is conjoined to a whitish patch on costa, an oblique wavy black line from its lower extremity to inner margin strongly angled inwards on vein 2; cilia white except at middle. Hind wing whitish, the terminal area broadly suffused with brown from costa to vein 2 with fuscous postmedial bar on its inner edge between veins 6 and 5; underside white with fuscous discoidal point and postmedial bar.

*Hab.* FR. GUIANA, St. Jean Maroni (*Schaus*), 1 ♀ type, type ♂ in Coll. Schaus. *Exp.*, ♂ 22, ♀ 26 mm.

(1 a) *Pionea pectinalis*, sp. n.

Antennæ of male bipectinate with rather long branches; mid tibiæ not dilated; hind tibiæ with the inner medial spur minute.

♂. Head and thorax cupreous yellow suffused with brown; pectus with three pairs of lateral brown spots; abdomen yellowish white with dorsal series of brown patches and lateral and ventral spots on basal segments. Fore wing cupreous yellow irrorated with brown, the base of costal area suffused with brown; an oblique diffused wavy sub-basal line from costa to vein 1; a diffused wavy antemedial line from subcostal nervure to inner margin; a round white

spot defined by black in upper angle of cell; an oblique postmedial bar from below costa to vein 5, with a rather triangular whitish spot beyond it followed by a diffused lunulate black-brown patch with spot on costa above it and very oblique dentate line from it to inner margin; some black points on costa towards apex and a terminal series. Hind wing white slightly tinged with yellowish towards termen on which there is a series of black points from apex to vein 2 where there is a larger spot; the underside with black spots in and beyond upper angle of cell and a post-medial series slightly excurved below costa and strongly below vein 5.

*Hab.* COLOMBIA, Sierra del Libane, 6000' (*H. H. Smith*), 1 ♂ type. *Exp.* 28 mm.

(1 b) *Pionea albiflua*, sp. n.

♂. Head and tegulæ purplish red; frons black-brown; a whitish streak on vertex of head; thorax brownish white with black fasciæ on shoulders and outer edge of patagia; pectus whitish and brown; legs purplish red with whitish streaks, the tarsi ringed with whitish; abdomen whitish tinged with brown, the ventral surface purplish red. Fore wing with the costal and terminal areas purplish red; the rest of basal area brown with a whitish patch at base of inner margin; the medial area obliquely whitish except towards costa; an elongate black annulus with brownish centre in middle of cell conjoined to the dark basal area, and a whitish discoidal lunule open below; postmedial line blackish, arising below costa, incurved and with black patch beyond it to vein 4 where it is angled outwards, then again incurved; the terminal area tinged with brown towards apex; a series of small black spots on costa towards apex and on termen which is whitish. Hind wing white, the terminal area suffused with brown except towards tornus; a series of small black spots on termen from apex to vein 2; cilia whitish; the underside with the costal area and terminal area to vein 2 suffused with purplish red, black lunules before and beyond the discocellulars, a curved post-medial series of small black spots.

*Hab.* W. COLOMBIA, San Antonio (*Palmer*), 1 ♂ type. *Exp.* 30 mm.

(1 c) *Pionea distictalis*, sp. n.

Antennæ of male bipectinate with short branches; mid tibiæ not dilated; hind tibiæ with the spurs well developed.

♂. Head and thorax brown with a cupreous gloss; palpi at base, pectus, and legs whitish, the fore tibiæ fuscous; abdomen whitish tinged with brown. Fore wing brown with a cupreous gloss; a rather diffused and slightly sinuous dark antemedial line from cell to inner margin; a rounded ochreous-white spot in upper angle of cell; an oblique sinuous rather diffused dark postmedial line from vein 3 to inner margin; a conical ochreous-white postmedial patch from costa to vein 5, somewhat constricted at middle and defined by fuscous; cilia pale brown. Hind wing whitish tinged with brown especially on apical part of termen; the underside with slight dark point at upper angle of cell, a slight postmedial line from costa to vein 5, where there is a dark spot and another at middle of submedian fold.

*Hab.* COLOMBIA, Sierra del Libane, 6000' (*H. H. Smith*), 1 ♂ type. *Exp.* 25 mm.

(1e) *Pionea albiluna*, sp. n.

Antennæ of male with the shaft laminate and with ridges of scales above.

♂. Head and thorax reddish brown; palpi black, white below at base; pectus and legs creamy white, the fore tibiæ with blackish band at extremity; abdomen whitish, dorsally suffused with brown. Fore wing dull brown; an indistinct dark antemedial line, oblique from costa to submedian fold; an oblique white discoidal lunule defined by blackish except above, where it is confluent with a yellow spot on costa; an indistinct dark line from lower angle of cell to inner margin, bent inwards to submedian fold, then slightly excurved. Hind wing white faintly tinged with brown, the terminal area suffused with brown; the underside with the costal area suffused with brown, a black discoidal spot, a slight brown postmedial line, angled inwards and with brown spot on it at discal fold, then oblique to submedian fold where it terminates.

*Hab.* W. COLOMBIA, San Antonio (*Palmer*), 1 ♂ type. *Exp.* 22 mm.

(1f) *Pionea dichorda*, sp. n.

♀. Head and thorax whitish suffused with rufous; palpi rufous, the third joint with black ring at base; sides of frons blackish; fore tibiæ blackish above; abdomen whitish tinged with rufous. Fore wing whitish tinged with rufous, the costal area suffused with purplish red; a small blackish spot in cell before the strong black antemedial line which is



bent inwards to costa; a blackish discoidal bar; a strong oblique black postmedial line; the costa towards apex and termen with series of small black spots. Hind wing white faintly tinged with rufous; a terminal series of small black spots from apex to vein 2; the underside with small black spots in middle of cell and on discocellulars, an oblique maculate postmedial line from costa to submedian fold.

*Hab.* W. COLOMBIA, San Antonio (*Palmer*), 1 ♀ type. *Exp.* 16 mm.

(2 a) *Pionea nephelistalis*, sp. n.

♀. Head and thorax yellow tinged with brown; pectus and legs whitish; abdomen yellow dorsally suffused with brown. Fore wing pale yellow, the medial area suffused with brown except towards costa; an inwardly oblique diffused black antemedial line from cell to inner margin; a black point in middle of cell and slight discoidal lunule; postmedial line formed of small wedge-shaped black marks not extending to costa, excurved to vein 4, then very oblique, with a diffused dark maculate band beyond it from below costa to vein 3 and a patch above inner margin. Hind wing pale yellow suffused with brown to beyond postmedial line except on costal area which is whitish, the postmedial line indistinct, pale, curved, defined on inner side by deeper brown and with a diffused band beyond it; the underside pale yellowish with diffused curved brown postmedial line.

*Hab.* C. CHINA, Ichang (*Mrs. Pratt*), 1 ♀ type. *Exp.* 26 mm.

(10 a) *Pionea fovifera*, sp. n.

Fore wing of male with large fovea below base of cell on upperside; hind wing with the costa strongly lobed at base.

♂. Head and thorax white suffused with reddish brown; pectus, legs, and abdomen white. Fore wing white suffused with reddish brown; a slight dentate excurved blackish antemedial line from below costa to beyond the fovea; a slight blackish discoidal lunule; postmedial line very indistinct, blackish, minutely dentate, excurved from costa to vein 4 then oblique; a terminal series of black points. Hind wing white faintly tinged with brown.

*Hab.* CUBA, Santiago (*Schaus*), 1 ♂ type. *Exp.* 14 mm.

(34 a) *Pionea nomophilodes*, sp. n.

Palpi about three times length of head.

Head and thorax pale red-brown; palpi white below; legs pale red-brown; pectus and abdomen brownish white. Fore wing white tinged with pale red-brown, especially on costal area; a minute black point in middle of cell and discoidal point just above lower angle of cell; a terminal series of minute black points. Hind wing white faintly tinged with red-brown; a terminal series of minute black points.

*Hab.* CHILI, Mulchen (*Elves*), 1 ♂, 1 ♀ type. *Exp.* 22 mm.

(34 c) *Pionea melanephra*, sp. n.

♀. Head, thorax, and abdomen ochreous; palpi black below; antennæ brownish; fore tibiæ with black band at extremity, the tarsi banded with blackish. Fore wing ochreous, irrorated with a few blackish scales; an indistinct sinuous dark antemedial line; a faint brown annulus in middle of cell and prominent black discoidal lunule with slight brown striga in centre, a black point above it on costa; postmedial line with black spot at costa, then slight and with series of black points on it, incurved and with small black spot at discal fold, below vein 4 bent inwards to below end of cell, then again excurved; the terminal area, suffused with rufous; a series of black points on costa towards apex and on termen. Hind wing creamy white, the terminal area tinged with rufous from costa to vein 2; a small black spot at upper angle of cell and point at lower angle; a terminal series of points from apex to vein 2; the underside with postmedial series of small black spots excurved between veins 4 and 2.

*Hab.* W. COLOMBIA, San Antonio (*Palmer*), 1 ♀ type. *Exp.* 24 mm.

(35 b) *Pionea chalcitalis*, sp. n.

♂. Head and thorax cupreous yellow almost entirely suffused with black; palpi whitish at base; legs yellow marked with black; abdomen whitish tinged with cupreous and dorsally suffused with black forming diffused bands except at base. Fore wing cupreous yellow suffused with black except at base of inner margin, on medial costal area, and terminal area; a triangular yellow antemedial patch from costa with indistinct diffused black line from it to inner margin; a small round white spot defined by black in upper angle of cell connected with the yellow costal area; a triangular postmedial yellow patch from costa with three white points below it, a diffused black patch beyond them

and a diffused incurved dark line from them to inner margin with yellow marks on inner side above and below vein 2; some small black spots on costa towards apex; a terminal series of black points. Hind wing white, the inner area tinged with brown; the terminal area slightly tinged with brown from apex to vein 2; a terminal series of black points; cilia yellow; the underside with the costal area irrorated with brown, the terminal area tinged with brown, black spots in and beyond end of cell, and a maculate curved postmedial line.

*Hab.* COLOMBIA, Sierra del Libane, 6000' (*H. H. Smith*), 1 ♂ type. *Exp.* 24 mm.

(35 c) *Pionea obvialis*, sp. n.

♂. Head and thorax red-brown mixed with some ochreous; palpi at base, pectus, and legs more ochreous; abdomen red-brown with dorsal blackish bands more prominent on the two basal segments, the ventral surface ochreous suffused with red-brown and with sublateral series of small black spots. Fore wing red-brown slightly mixed with ochreous; a strong oblique black antemedial line from cell to inner margin and a strong black postmedial line very oblique below vein 4, the area between them yellowish on inner half; a small hyaline spot in upper part of end of cell defined by black, and a similar spot above vein 6 before the postmedial line, with a black line from it to vein 5; the termen and base of cilia narrowly yellowish with a terminal series of blackish points. Hind wing yellowish white, the terminal area suffused with brown except towards tornus; the underside with the costal area suffused with red-brown, small black spots in and beyond upper angle of cell and a slight postmedial line somewhat excurved at vein 5 and with small blackish spot at discal fold.

*Hab.* PERU, Cerro del Pasco, Huancabamba, 1 ♂ type. *Exp.* 20 mm.

(36 a) *Pionea ænealis*, sp. n.

♂. Head and thorax brassy yellow suffused with fuscous brown; palpi black, white below; pectus and legs whitish marked with fuscous; abdomen white with dorsal series of blackish bands and ventral series of small black spots. Fore wing brassy yellow irrorated with brown; a black antemedial line curved inwards to costa with an oblique whitish bar on its outer edge in cell; a white discoidal bar defined by black at sides and constricted at middle; a black postmedial line with whitish band on inner side from costa to

vein 5, defined on inner side by a fine black line except at costa, the postmedial line strong, diffused and obliquely incurved below vein 5; a terminal series of prominent black points. Hind wing white with terminal series of small black spots; the underside with the costal and apical part of terminal area tinged with brown, black spots in and beyond end of cell, a curved postmedial series of small black spots.

*Hab.* COLOMBIA, Sierra del Libane, 6000' (*H. H. Smith*), 1 ♂ type. *Exp.* 24 mm.

(37 a) *Pionea luniferalis*, sp. n.

♀. Head, thorax, and abdomen brown with an æneous gloss; palpi at base, pectus, legs, and abdomen white, the fore tibiæ banded with brown. Fore wing brown with an æneous gloss; an indistinct, oblique, rather diffused, fuscous antemedial line; a rather lunulate postmedial yellow patch from costa to vein 5 with the indistinct diffused postmedial line on its outer edge, strongly incurved below vein 5; apical part of costa yellowish with slight brown spots; apical half of cilia yellow with small brown spots at base. Hind wing pale brown with an æneous gloss; cilia yellow with a brown line at base; the underside white tinged with brown especially on terminal area, a slight spot at upper angle of cell and curved postmedial line.

*Hab.* BRAZIL, Organ Mts., Tijuca (*Wagner*), 1 ♀ type. *Exp.* 24 mm.

(38 a) *Pionea ochropera*, sp. n.

♂. Head and thorax ochreous tinged with rufous and mixed with dark brown; pectus whitish; fore tibiæ with black band near extremity; abdomen white dorsally suffused with dark brown leaving white segmental lines. Fore wing ochreous irrorated with dark brown and suffused with purplish fuscous except on costal area and inner margin, the apical area ochreous, with a dark streak below vein 8; antemedial line blackish, angled outwards below costa and bent outwards to inner margin; a black annulus in middle of cell and narrow elliptical discoidal annulus defined by black; postmedial line blackish slightly defined on outer side by ochreous, obliquely downcurved to vein 6, excurved and slightly waved to vein 2, then bent inwards to below end of cell and again excurved; some small black spots on costa towards apex; a blackish terminal line with ochreous points at the veins. Hind wing semihyaline white; black

points at angles of cell; the apical area and termen to vein 2 suffused with brown; the termen with blackish points to submedian fold; cilia white with a dark line near base; the underside with the costal area slightly irrorated with blackish, small black spots in end of cell and on discocellulars and a point at lower angle, three postmedial black points from costa to discal fold, then traces of a curved punctiform line to submedian fold where there is a black point, a terminal series of black points.

*Hab.* COLOMBIA, Sierra del Labano (*H. H. Smith*), 1 ♂ type. *Exp.* 26 mm.

(386) *Pionea nigribasalis*, sp. n.

♂. Head, thorax, and abdomen brown strongly suffused with black; antennæ ringed black and white; pectus and legs paler, the tibiæ and tarsi banded with black. Fore wing greyish, the basal area strongly suffused with black, the rest of wing with red-brown; the basal area bounded by a slight pale somewhat incurved antemedial line strongly defined by black on outer side; a pale discoidal spot defined by brown, rounded above and acuminate below with a semi-circular black mark above it on costa; postmedial line black, dilated into a spot on costa, oblique to vein 6, then inwardly oblique and waved, at vein 3 retracted to below angle of cell, then again excurved, some deep brown suffusion beyond it on costal area and from middle to inner margin; a sub-terminal black spot above middle; some black points on costa towards apex and a terminal series with blackish spot at apex; cilia black with greyish tips. Hind wing greyish suffused with fuscous brown, the apical part of terminal area darker; an indistinct curved postmedial line; cilia brown at base, greyish at tips; the underside greyish irrorated with brown, a slight black streak in cell near base and discoidal spot, a sinuous postmedial line defined by a whitish band on outer side, the terminal area fuscous.

*Hab.* BR. E. AFRICA, Kikuyu, Roromo (*Crawshay*), 1 ♂ type. *Exp.* 18 mm.

(38 b) *Pionea muscosalis*, sp. n.

Head and thorax sap-green mixed with some whitish and black scales; palpi whitish below and with black spot on second joint; antennæ brownish white ringed with black; pectus and legs brownish white, the tarsi ringed with fuscous; abdomen ochreous brown with slight whitish segmental rings. Fore wing sap-green slightly irrorated with

black, some deep rufous and blackish suffusion below and beyond end of cell, and at base of inner margin; a diffused blackish subbasal line; antemedial line black, oblique, slightly sinuous; the terminal half of costa with black striae with pale brown between them; postmedial line white, defined on inner and outer sides by series of black points, slightly excurved below costa and at middle; a terminal white line with series of black points on it and black spot on its inner edge at discal fold; cilia pale brown mixed with fuscous and with whitish tips. Hind wing fuscous brown, the cilia greyish with dark line near base; the underside whitish tinged with brown, small black spots at angles of cell, postmedial spots on costa and in discal fold and a terminal series of striae.

Ab. 1. Fore wing with the antemedial line defined by white on inner side except at costa, and with large patch beyond it below the cell.

*Hab.* TRANSVAAL, Lekkerwater Kloof (*Janse*), 3 ♂, 1 ♀ type. *Exp.* 20 mm.

(50 a) *Pionea squamosa*, sp. n.

♀. Head, thorax, and abdomen white mixed with pale brown. Fore wing white tinged with pale grey-brown and irrorated with large white black-tipped scales forming obscure bars on and beyond the discocellulars; an indistinct waved dark antemedial line; small white and dark spots on costa just before and beyond end of cell; postmedial line dark, defined on outer side by white towards costa, minutely dentate, oblique from costa to discal fold, then inwardly oblique; a fine blackish terminal line; cilia with a fine white line near tips. Hind wing white tinged with brown; a punctiform black terminal line from apex to vein 2; the underside white, the costal area and submedian fold irrorated with brown, a dark postmedial shade from costa to vein 5.

*Hab.* CAPE COLONY, Deelfontein (*Sloggett*), 1 ♀ type. *Exp.* 16 mm.

(50 b) *Pionea epiphænicealis*, sp. n.

♂. Head and thorax red-brown; palpi below, pectus, and legs white; abdomen grey-brown with slight pale segmental lines. Fore wing brown shot with purple and with slight dark irroration; traces of a dark antemedial line slightly angled outwards at median nervure; an indistinct dark spot in middle of cell and discoidal lunule; traces of a medial line, oblique towards costa and excurved beyond lower angle

of cell between vein 5 and submedian fold; postmedial line dark slightly defined by ochreous on outer side, minutely dentate, oblique towards costa, excurved between veins 6 and 3, then somewhat retracted; a terminal series of black points; cilia ochreous. Hind wing cupreous brown with a slight dark terminal line; cilia yellowish white with a fine dark line near base; the underside ochreous white with dark discoidal lunule, minutely dentate postmedial line excurved at middle and terminal series of black striæ.

*Hab.* SIERRA LEONE (*Clements*), 2 ♂ type. *Exp.* 22 mm.

(55 a) *Pionea leptidalis*, sp. n.

♂. Head, thorax, and abdomen pale reddish brown; palpi dark brown, white at base; pectus, legs, and ventral surface of abdomen whitish. Fore wing pale reddish brown with slight dark irroration; antemedial line indistinct, fuscous, rather diffused, very oblique from costa to median nervure, then slightly incurved; a dark discoidal lunule with slight pale spot beyond it; postmedial line indistinct, excurved and slightly waved between veins 6 and 2 where it is retracted to below angle of cell, then bent outwards again; a terminal series of black points. Hind wing white, the termen tinged with brown and with a series of black points from apex to submedian fold; the underside with curved postmedial series of small brown spots from costa to vein 3.

*Hab.* PARAGUAY, Sapucay (*Foster*), 1 ♂ type. *Exp.* 22 mm.

(56 a) *Pionea diopsalis*, sp. n.

Head and thorax pale rufous; palpi white at base; pectus and legs white slightly tinged with rufous; abdomen white tinged with rufous towards extremity. Fore wing pale rufous, the inner area whitish; irrorated with a few black scales; antemedial line absent; orbicular and reniform grey defined by fuscous, the former round, the latter irregularly quadrate; the terminal half of costa with series of small dark spots; postmedial line with series of black points and traces of a minutely dentate line between them, slightly excurved from costa to vein 4, then oblique; a terminal series of prominent black points; cilia greyish fuscous with fine dark line near base. Hind wing white, the terminal area tinged with brown; a fine sinuous postmedial line from costa to vein 3; a terminal series of black points; cilia with a fine dark line near base; the underside irrorated with

fuscous, a dark spot at upper angle of cell and point at lower angle, a maculate sinuous postmedial line.

Ab. 1. Fore wing with the orbicular and reniform deep black.

*Hab.* CHILI, Mulchen (*Elwes*), 1 ♂, 2 ♀ type. *Exp.* 24 mm.

(58 a) *Pionea hæmatalis*, sp. n.

Head, thorax, and abdomen yellow suffused with fiery crimson; palpi brown, white below; throat white; fore tibiæ brown banded with white, the tarsi white; mid tibiæ below and tarsi white. Fore wing yellow, the costal area, base, streaks on the veins, and diffused lines fiery crimson covering most of wing, the costa tinged with brown; the diffused antemedial line somewhat oblique and sinuous; a small brownish spot in middle of cell and discoidal lunule; postmedial line minutely dentate, oblique from costa to vein 5, at vein 2 retracted to lower angle of cell, then somewhat oblique to inner margin; a minutely waved, curved subterminal line; termen suffused with red; cilia brown. Hind wing yellow, the veins streaked with fiery red; a diffused streak on vein 1; diffused spots at origin of vein 2 and lower angle of cell; a minutely waved postmedial line oblique from costa, at vein 2 retracted to the spot at lower angle of cell, then oblique to inner margin; a minutely waved, curved subterminal line; termen suffused with red; cilia brown; the underside yellow with indistinct reddish postmedial and subterminal lines.

*Hab.* BR. NEW GUINEA, Mt. Kebea (*Pratt*), 1 ♂ type, Dinawa, 1 ♀, Mafalu, 1 ♀, Ekeikei, 2 ♀. *Exp.* 30 mm.

(62 a) *Pionea xanthographa*, sp. n.

♀. Head and thorax pale yellow; palpi and sides of frons rufous, the former white at base; pectus, tibiæ, and tarsi white; abdomen white slightly tinged with ochreous. Fore wing pale yellow, the costa tinged with rufous to beyond middle; a nearly straight orange antemedial line; an orange discoidal bar; postmedial line orange, very slightly excurved from below costa to vein 3, then bent inwards to lower angle of cell and again slightly excurved; a fine dark terminal line; cilia white at tips. Hind wing pale yellow; an oblique orange antemedial line from middle of cell to inner margin; an oblique orange postmedial line from below costa to tornus; the termen whitish defined on inner side by an orange line; a fine dark terminal line; cilia orange at base, whitish at tips; the underside uniformly whitish.

*Hab.* S. NIGERIA, Lagos (*Boag*), 1 ♀ type. *Exp.* 22 mm.



(63 a) \**Pionea ignitalis*, sp. n.

♀. Head and thorax deep red-brown; base of palpi and antennæ, sides of frons, and throat pure white; tarsi white; abdomen paler brown. Fore wing with the basal and costal areas brown, the rest of wing orange-brown suffused with brilliant purple-crimson; a curved yellow band just beyond middle from below costa to inner margin, dilated at lower angle of cell, enclosing some crimson spots and edged by red lines; cilia orange. Hind wing orange with the area between submedian fold and vein 5 suffused with crimson, crossed by an oblique yellow postmedial band outwardly edged with red; the termen black at apex, purple at middle; the tornus truncate.

*Hab.* NIGER R., Warri (*Roth*). *Exp.* 18 mm. Type in Coll. Rothschild.

(76 a) *Pionea mesophæalis*, sp. n.

♂. Head and thorax orange-yellow; palpi at base, pectus, legs, and abdomen whitish, the anal tuft yellow. Fore wing yellow irrorated with fuscous brown, except inner basal area, the basal costal area and medial area slightly darker; a rather diffused straight erect antemedial fuscous line; a slight pale spot at lower angle of cell; a strong fuscous postmedial line, excurved below costa, then curved inwards to below angle of cell and straight to inner margin; a slight diffused dark terminal band; cilia pale yellow. Hind wing white, the terminal area slightly tinged with ochreous; an indistinct curved dark postmedial line except towards inner margin; the underside with the costal area suffused with brown.

*Hab.* BR. E. AFRICA, Kikuyu, Roromo (*Crawshay*), 1 ♂ type. *Exp.* 30 mm.

(82 a) *Pionea ectophæalis*, sp. n.

♀. Pale lemon-yellow; palpi rufous, white below; pectus and legs white; abdomen white dorsally tinged with yellow. Fore wing with the costal edge brown; the termen narrowly brown, the cilia brown at base, white at tips. Hind wing with a terminal line and base of cilia brown from apex to vein 2, the rest of cilia white.

*Hab.* AMBOINA (*Doherty*), 1 ♀ type. *Exp.* 22 mm.

(82 b) *Pionea brunneiciliaris*, sp. n.

♂. Fulvous yellow; tibiæ and tarsi whitish. Fore wing

with the costal and terminal areas rather deeper fulvous, the costal edge brown; a slightly waved antemedial fulvous line, oblique from costa to submedian fold; a slight discoidal lunule; postmedial line minutely waved, excurved from costa to vein 2, then retracted to below angle of cell and rather oblique to inner margin; a fine terminal dark line; cilia brown at base, ochreous white at tips. Hind wing rather paler except terminal area; faint traces of a postmedial line between veins 5 and 2; the termen narrowly brown and the cilia brown at base from apex to vein 2, the rest of cilia ochreous white. Underside with the costal area of fore wing and the hind wing whitish.

*Hab.* BATCHIAN (*Doherty*), 1 ♂ type. *Exp.* 24 mm.

(90 a) *Pionea teinopalpia*, sp. n.

Palpi about three times length of head.

♂. Head and thorax ochreous yellow; palpi and frons at sides red-brown; tegulae and patagia tinged with rufous on outer edge; pectus and legs white, the fore legs brown in front; abdomen white, dorsally suffused with reddish ochreous. Fore wing ochreous yellow, the costal half of wing suffused with red-brown, the terminal area with rufous, the medial inner area irrorated with brown; traces of a very oblique antemedial brown line from costa to origin of vein 2, then an inwardly oblique series of three small black spots between the cell and vein 1; a brownish fascia on extremity of median nervure and vein 4 to the postmedial line, which is represented by a series of blackish points, excurved below costa, then oblique and angled inwards on vein 2; cilia brownish, with a dark line at middle. Hind wing white, with a faint ochreous tinge, especially on apical area; the termen with minute rufous points from apex to vein 2; the underside with the costal area tinged with ochreous, a curved brown postmedial line with dark points at the veins from costa to vein 2.

*Hab.* PERU, Oconeque (*Ockenden*), 1 ♂ type. *Exp.* 34 mm.

(90 b) *Pionea melastictalis*, sp. n.

♂. Head and thorax pale yellow suffused in parts with red-brown; palpi red-brown, white at base; pectus and mid and hind legs white; fore legs brown; abdomen pale yellow, dorsally slightly tinged with brown. Fore wing pale yellow, the veins and costal edge streaked with red-brown;

antemedial line formed of short dark streaks from subcostal nervure to submedian fold, where it is angled, then oblique to inner margin; a streak in end of cell; a discoidal lunule conjoined by the almost confluent streaks on bases of veins 5 to 3 with the postmedial line, which is formed of short somewhat dentate black streaks, excurved from costa to vein 5, then very oblique, and ending in a curved brown streak below vein 1 to the antemedial line; a highly dentate brown subterminal line angled inwards at discal and submedian folds, at former to the postmedial line, the area beyond it brown except at apex; cilia brown, with a yellowish line at base. Hind wing semihyaline white, with curved postmedial series of slight fuscous spots in the interspaces from costa to vein 2, the underside with the costal area irrorated with brown, a dark spot in upper angle of cell, the postmedial series more prominent, a terminal series of black points from apex to vein 2.

*Hab.* PERU, Huancabamba, 1 ♂ type. *Exp.* 32 mm.

(103 a) *Pionea subcostalis*, sp. n.

♂. Head and front of thorax cupreous brown, the hinder part of thorax pale yellow; palpi white at base; antennæ with the shaft white above towards tips; pectus and legs white; abdomen cupreous brown, the ventral surface white. Fore wing pale yellow, with a broad cupreous brown fascia below costa, which is white, and a cupreous brown subterminal shade; a slight brown antemedial line from cell to inner margin; a brown discoidal spot on the subcostal fascia; a slight brown postmedial line, excurved between veins 5 and 2. Hind wing pale yellow; a small brown discoidal spot and slight postmedial line excurved between veins 5 and 2.

*Hab.* PERU, Pozuzo, 1 ♂ type. *Exp.* 24 mm.

(104 c) *Pionea erythralis*, sp. n.

♂. Yellow; head and thorax entirely suffused with deep red-brown; abdomen irrorated with rufous. Fore wing suffused with red-brown at base, on costal area to the postmedial line, and beyond the antemedial line, which is oblique from costa to below the cell and angled inwards on vein 1; a point in middle of cell and discoidal spot; the postmedial line very minutely dentate, curved from costa to vein 3, then inwardly oblique; a diffused subterminal dentate band.

Hind wing clear yellow, with slight fuscous subterminal line from costa to submedian fold.

♀. Head, thorax, abdomen, and fore wing entirely suffused with dull pink.

*Hab.* NIGERIA, Warri (*Roth*), Dogo (*Simpson*), 1 ♂ type, Zungeru (*Macfie*), 1 ♀; BR. C. AFRICA, Fort Johnston (*Rendall*), 1 ♀, Blantyre; NATAL, Durban (*Leigh*), 1 ♂, 1 ♀. *Exp.*, ♂ 24, ♀ 30 mm.

(114a) *Pionea poliochroa*, sp. n.

♀. Head and thorax white tinged with pale red-brown; abdomen white. Fore wing white tinged and irrorated with pale red-brown; antemedial line hardly traceable except as a dark striga on inner area; traces of a quadrate brown spot in middle of cell and a rather more distinct elliptical discoidal spot; postmedial indistinct, dark, excurved from costa to vein 4, then oblique; traces of a dark subterminal shade; some minute dark points on termen except towards tornus. Hind wing white slightly irrorated with brown; a dark point at lower angle of cell; postmedial line slight, dark, minutely waved, excurved between veins 5 and 2; a series of obscure dark streaks in the interspaces of terminal area; some minute black points on apical part of termen.

*Hab.* SANDWICH IS., Oahu, Waialua (*Perkins*), 1 ♀ type. *Exp.* 20 mm.

(121a) *Pionea piperitalis*, sp. n.

♀. Head and thorax yellow-brown mixed with whitish; palpi blackish at tips; abdomen white, the ventral surface slightly irrorated with fuscous, the anal tuft tinged with ochreous. Fore wing whitish thickly irrorated with fuscous, the costal area ochreous to beyond middle; the terminal area suffused and irrorated with fuscous, the apex and termen tinged with ochreous; an indistinct, diffused, curved, antemedial dark line defined on inner side by a whitish band except towards costa; a small quadrate white spot in upper angle of cell, with slight black striga on its inner edge and small lunule on outer; a diffused dark postmedial line, oblique and sinuous below vein 4, defined on outer side by a whitish band from vein 4 to inner margin; a terminal series of blackish points. Hind wing white, with rather narrow, diffused, brownish terminal band except towards tornus, irrorated with fuscous; a terminal series of blackish points except towards tornus; cilia brownish at base, whitish at tips; the underside with black point at upper angle of cell

and small diffused blackish postmedial spots at costa, discal fold, and towards inner margin.

*Hab.* BR. E. AFRICA, Udimu (*Betton*), 1 ♀ type. *Exp.* 26 mm.

(127 a) *Pionea phæalis*, sp. n.

♂. Dark reddish brown mixed with fuscous; palpi blackish, white below at base. Fore wing with small antemedial black spots below cell and on inner margin; a bisinuate discoidal black line defined by pale brownish on outer side; a small patch of blackish suffusion beyond lower angle of cell; postmedial line black, slightly excurved below costa, incurved at discal fold, excurved to vein 2, then retracted to below end of cell and again slightly excurved; a black terminal line; cilia with a strigiform black line at middle and blackish tips. Hind wing more fuscous brown, with terminal series of faint dark points; cilia paler, with blackish line near base; the underside with traces of diffused dark postmedial line on costal area.

*Hab.* BR. E. AFRICA, Kirbehls (*Betton*), 1 ♂ type. *Exp.* 20 mm.

(130) *Pionea secticostalis*, sp. n.

♀. Head, thorax, and abdomen cupreous brown; frons white at sides; palpi at base, pectus, legs, and ventral surface of abdomen white. Fore wing cupreous brown; traces of an oblique sinuous antemedial line, with a small white spot beyond it below costa; an indistinct dark discoidal lunule with small white spot in centre; the terminal third of costa with four short white streaks alternating with short black streaks; an indistinct postmedial line excurved from costa to vein 4, then incurved; some slight black points on apical half of costa. Hind wing pale cupreous brown, with traces of a curved postmedial line and fine terminal line; the underside grey-brown, with two obliquely placed discoidal points, a highly curved punctiform postmedial line, and terminal series of black points or striæ.

*Hab.* PARAGUAY, Sapucay (*Foster*), 2 ♀ type. *Exp.* 18 mm.

(128 a) *Pionea monospila*, sp. n.

♀. Head, thorax, and abdomen cupreous brown mixed with some grey; pectus and ventral surface of abdomen whitish; tarsi ringed with white. Fore wing cupreous

brown irrorated with a few white scales ; a postmedial white spot on costa. Hind wing cupreous brown.

*Hab.* BRAZIL, Petropolis (*Doer*), 1 ♀ type. *Exp.* 14 mm.

(140 a) *Pionea leucozonea*, sp. n.

♂. Head and thorax white mixed with bronze-brown ; abdomen white dorsally tinged with brown, leaving white segmental lines ; pectus and legs white. Fore wing whitish suffused with bronze-brown and irrorated with blackish ; a pure white antemedial band narrowing to costa ; a quadrate white patch in end of cell confluent with a patch above it on costa, a small semicircular blackish mark before it in middle of cell, and a blackish discoidal lunule with white centre ; a white spot on costa beyond the cell ; a white postmedial band, narrowing and sinuous between veins 6 and 2, then retracted to lower angle of cell and forming an oblique white band to inner margin ; a terminal series of small dark spots. Hind wing white tinged with bronze-brown except on costal area to beyond middle ; a dark discoidal point ; a brown postmedial line defined on outer side by whitish, bent outwards between veins 5 and 2 ; a terminal series of dark points ; the underside white, a blackish point in middle of cell and small discoidal lunule, the postmedial line with some blackish points on it, the terminal points black.

*Hab.* SANDWICH Is., Hawaii, Kilauea (*Perkins*), 1 ♂ type. *Exp.* 16 mm.

(3) *Paratalanta griseicinctalis*, sp. n.

Mid tibia of male without fold and tuft, hind tibia with the inner medial spur minute ; fore wing without costal fold ; hind wing with the termen evenly curved.

♂. Head and thorax brown mixed with whitish ; palpi white below ; pectus and legs whitish ; abdomen white dorsally tinged with brown. Fore wing whitish suffused with cupreous brown, leaving the terminal area white ; an indistinct brown antemedial line oblique from costa to below the cell ; a brown spot in middle of cell and discoidal spot with whitish centre ; an indistinct postmedial line excurved from costa to vein 2, then bent inwards to below end of cell and erect to inner margin, closely approximated at middle to the indistinct subterminal line, which is rather maculate towards costa. Hind wing semihyaline whitish, the disk tinged with cupreous brown, the terminal area whiter ; a slight dark discoidal bar ; postmedial line bent outwards between veins 5

and 2, then retracted to below angle of cell and oblique to above inner margin; a subterminal line slightly excurved between veins 5 and 2.

*Hab.* BAHAMAS (*Bonhote*), 2 ♂ type. *Exp.* 32 mm.

(4 b) *Pyrausta glaucoleuca*, sp. n.

Fore coxæ of male with tuft of long fuscous scales below, the femora with tuft of long fulvous hair above; abdomen with ventral fan of scales on penultimate segment.

♂. Head, thorax, and abdomen grey-brown, the vertex of head whitish; palpi dark brown, white below; pectus, legs, and ventral surface of abdomen white slightly tinged with rufous. Fore wing silky grey-brown; a faint, dark, minutely waved postmedial line, excurved below costa and at middle, retracted below vein 2; cilia with a fine yellowish line at base, blackish at middle and with white tips. Hind wing pure white, with a fine brown terminal line.

*Hab.* S.E. PERU, La Oroya (*Ockenden*), 2 ♂ type. *Exp.* 26 mm.

(8 a) *Pyrausta albicostalis*, sp. n.

♂. Head and thorax yellow; palpi fulvous, white at base; sides of frons with white lines; shoulders fulvous; pectus and legs white, the fore femora and tibiæ and mid femora fulvous; abdomen white. Fore wing yellow, the costal area fulvous, with the costal edge white, the veins deeper yellow; traces of a curved yellow antemedial line and of a postmedial line excurved from costa to vein 5, then oblique; cilia whitish. Hind wing white, with fine yellowish terminal line.

*Hab.* BRAZIL, Organ Mts., Tijuca (*Wagner*), 1 ♂ type. *Exp.* 28 mm.

(12 a) *Pyrausta perflavalis*, sp. n.

♂. Head and thorax bright yellow; palpi fulvous, white below; frons with fine lateral white streaks; pectus and legs white, the fore tibiæ yellow in front; abdomen white, dorsally suffused with yellow. Fore wing bright yellow, the costal edge narrowly brown; an indistinct orange antemedial line, oblique from costa to submedian fold; a slight discoidal bar; postmedial line indistinct, excurved from costa to vein 2, then retracted to lower angle of cell; cilia brown, white at tips. Hind wing rather paler yellow except towards termen; cilia brown from apex to vein 2.

*Hab.* FERGUSSON I. (*Meek*), 1 ♂ type; QUEENSLAND, Mt. Tambourine, 1 ♂. *Exp.* 24 mm.

(16 a) *Pyrausta atricinctalis*, sp. n.

♀. Golden yellow; palpi blackish at tips; maxillary palpi black at tips. Fore wing with round black discoidal spot; a narrow black terminal band, rather broader and diffused on inner side towards apex; cilia black. Hind wing with narrow black terminal band and the cilia black from apex to vein 2.

*Hab.* MASHONALAND (*Dobbie*), 1 ♀ type. *Exp.* 26 mm.

(20 a) *Pyrausta p~~e~~vulgalis*, sp. n.

Head and thorax ochreous slightly tinged with rufous; palpi and sides of frons rufous, the former white at base; fore legs rufous; abdomen ochreous white. Fore wing ochreous, the costal area slightly tinged with rufous; an indistinct oblique sinuous antemedial line; a faint dark spot in middle of cell and discoidal bar; postmedial line indistinct, dark, excurved and minutely dentate from vein 6 to 3, then retracted to below end of cell and sinuous to inner margin; a terminal series of slight dark striae. Hind wing ochreous white; an indistinct brownish postmedial line, excurved and minutely waved between veins 5 and 2, then obsolete; traces of a somewhat diffused subterminal line from costa to vein 2 and of a fine terminal line.

*Hab.* JAPAN, Satsuma (*Leech*), 2 ♂ type, Nagasaki (*Leech*), 1 ♀; C. CHINA, Ningpo, 1 ♀, Foochow (*Leech*), 1 ♂, 1 ♀, Kinkiang (*Pratt*), 1 ♂; W. CHINA, Chang-yang (*Pratt*), 1 ♂. *Exp.* 26-30 mm.

(30 a) *Pyrausta thermicruralis*, sp. n.

Bright straw-yellow; palpi rufous, white below; sides of frons and shoulders tinged with rufous; pectus and legs white, the femora rufous, fore tibiae rufous at extremities, the mid tibiae rufous above. Fore wing with the costal area slightly tinged with rufous; a slightly sinuous antemedial rufous line bent inwards to costa; a discoidal lunule; postmedial line arising from below costa, excurved and minutely waved to vein 3, on which is an oblique streak connecting it with lower angle of cell, then bent inwards to below angle of cell and erect to inner margin; a rufous terminal line and the cilia rufous. Hind wing with slight oblique postmedial



line between veins 5 and 2 ; a terminal rufous line and the cilia rufous from apex to vein 2.

*Hab.* PARAGUAY, Sapucay (*Foster*), 4 ♂, 1 ♀ type. *Exp.* 32-36 mm.

(31 a) *Pyrausta straminea*, sp. n.

*Epicorsia butyroa*, Druce, Biol. Centr.-Am., Het. ii. p. 212 (part.), nec Guen.

♂. Head, thorax, and abdomen ochreous faintly tinged with rufous ; palpi white at base ; mid tibiæ white in front. Fore wing ochreous, the costal area faintly tinged with rufous towards base ; antemedial line indistinct, oblique to submedian fold and incurved above inner margin ; a slight discoidal striga ; postmedial line indistinct, minutely waved, excurved to vein 2, then retracted to below end of cell and again excurved. Hind wing ochreous ; an indistinct postmedial line, oblique and slightly waved to vein 2, then retracted to lower angle of cell and oblique to above tornus ; a brownish terminal line.

*Hab.* MEXICO, Presidio (*Forrer*), 1 ♂ type, Godman-Salvin Coll. *Exp.* 34 mm.

(31 b) *Pyrausta furvalis*, sp. n.

♀. Head, thorax, and abdomen fulvous red ; palpi white below ; fore coxæ in front, mid tibiæ at sides, and the tarsi white ; pectus and ventral surface of abdomen brown. Fore wing fulvous red ; an indistinct dark antemedial line, oblique to submedian fold and incurved above inner margin ; a faint dark point in middle of cell and discoidal lunule ; postmedial line indistinct, dark, excurved and waved from below costa to vein 3, then retracted to below end of cell ; cilia brown. Hind wing orange-red ; a very indistinct curved postmedial line between veins 5 and 2 ; cilia brownish.

*Hab.* W. COLOMBIA, Jimenez, 1 ♀ type. *Exp.* 32 mm.

(32 a) *Pyrausta holoxuthalis*, sp. n.

♂. Deep straw-yellow ; head and tegulæ tinged with orange ; palpi fulvous, white below ; tibiæ and tarsi whitish. Fore wing with the costal area tinged with orange towards base. Hind wing with the cilia whitish. Underside of fore wing with the costal area tinged with fuscous, traces of a pale curved postmedial line ; hind wing faintly tinged with fuscous, traces of a pale postmedial band.

*Hab.* C. CHINA, Ichang (*Mrs. Pratt*), 1 ♂ type. *Exp.* 30 mm.

(34 a) *Pyrausta hæmaproctis*, sp. n.

♂. Head and tegulæ pale brown; thorax grey; palpi dark brown above, white below; pectus white; legs white tinged with brown, the fore tibiæ with brown band at extremity; abdomen pale brown, the anal tuft crimson, the ventral surface white. Fore wing pale grey-brown, the lower part of cell and the area below it to submedian fold white; a minute dark discoidal lunule; postmedial line indistinct, dark, excurved to vein 4, then oblique; cilia with a fine whitish line at base and whitish tips. Hind wing pale grey-brown, the basal and inner areas whitish; traces of a dark postmedial line from costa to vein 4; cilia with a fine white line at base and whitish tips; the underside whitish, with the postmedial line more distinct.

*Hab.* S.E. PERU, La Oroya (*Ockenden*), 1 ♂ type. *Exp.* 28 mm.

(35 a) *Pyrausta melanocera*, sp. n.

Fore wing with slight subbasal fovea in cell.

♂. Head, thorax, and abdomen ochreous yellow; antennæ black except basal joint. Fore wing ochreous yellow, the costal edge brownish. Hind wing pale ochreous yellow.

*Hab.* N. NIGERIA, Minna (*Macfie*), 1 ♂ type. *Exp.* 20 mm.

(37 a) *Pyrausta metaleuca*, sp. n.

♂. Head, thorax, and abdomen pale brown; legs streaked whitish and brown; abdomen with the ventral surface whitish. Fore wing pale reddish brown; traces of a curved dark antemedial line; a slight dark spot in upper part of cell towards extremity and discoidal lunule; traces of a dark postmedial line excurved from below costa to vein 4, then oblique; a fine pale line at base of cilia. Hind wing white, the costa and termen with a faint brownish tinge; a terminal series of black striæ from apex to vein 1; the underside white faintly tinged with brown, a dark discoidal point, a postmedial punctiform line slightly excurved below discal fold, a terminal series of black points.

*Hab.* GERM. E. AFRICA, Kiliman'jaro (*Sjöstedt*), 1 ♂ type. *Exp.* 30 mm.

(43 a) *Pyrausta achroalis*, sp. n.

♀. Head, thorax, and abdomen white faintly tinged with rufous; sides of palpi and frons rufous; fore tibiæ with brown band at extremity. Fore wing white faintly tinged

with rufous ; traces of an oblique dark antemedial line ; a black point in upper part of middle of cell and a discoidal bar ; postmedial line very indistinct, dark, excurved from vein 6 to 2, then bent inwards to below end of cell ; the termen rufous, with a series of dark points on it. Hind wing white faintly tinged with rufous ; an oblique black discoidal bar ; traces of a dark postmedial line excurved from vein 6 to 2, then bent inwards to near lower angle of cell and obliquely excurved to inner margin ; a fine rufous terminal line.

*Hab.* JAMAICA, Runaway Bay (*Walsingham*), 1 ♀ type ; CUBA, Santiago (*Schaus*), 1 ♀. *Exp.* 22 mm.

(61 a) *Pyrausta phœnizonalis*, sp. n.

Head and thorax ochreous yellow ; palpi rufous, white below ; throat white ; fore tibiæ white, tinged with fuscous at extremity ; abdomen ochreous. Fore wing ochreous yellow, the base and costal area to beyond middle tinged with rufous ; an antemedial brown line, oblique from costa to submedian fold, then incurved ; a small spot in middle of cell ; a lunulate discoidal spot with yellow lunule in middle ; a brown lunule beyond the cell with the postmedial line arising from it, faint and excurved to vein 2, then retracted to median nervure, strong and slightly incurved from near origin of vein 2 to inner margin ; a broad purplish-grey terminal band with dark brown inner edge, angled outwards below costa and inwards in discal fold, then excurved to vein 2, where it expands inwards to the angle of postmedial line ; cilia pale yellow. Hind wing ochreous yellow ; a small black discoidal spot ; a brown postmedial line bent outwards between veins 5 and 2, then retracted to below angle of cell, and slightly excurved to inner margin ; a broad purplish-grey terminal band with dark brown inner edge, angled inwards at discal fold, then minutely waved, and expanding inwards at vein 2 ; cilia pale yellow.

*Hab.* JAPAN, Hakodaté (*Leech*), 1 ♂, 1 ♀ type. *Exp.* 26 mm.

(73 a) *Pyrausta rufitincta*, sp. n.

♂. Head and thorax ochreous tinged with rufous ; palpi rufous, white at base ; pectus and legs white, the fore tibiæ with rufous band at extremity ; abdomen white dorsally faintly tinged with rufous. Fore wing ochreous tinged with rufous ; a slight rufous discoidal lunule ; postmedial line rufous, minutely waved, excurved from below costa to vein 2,

then bent inwards ; a punctiform rufous terminal line ; cilia with a rufous line at middle and white tips. Hind wing ochreous white.

*Hab.* TRANSVAAL, White R. (Cooke), 1 ♂ type. *Exp.* 24 mm.

(75 a) *Pyrausta arenicola*, sp. n.

Head and thorax ochreous, the frons whitish ; palpi white at base ; pectus and legs white, the tibiæ and tarsi tinged with ochreous, the tarsi with brownish bands ; abdomen white tinged with ochreous. Fore wing ochreous tinged with fulvous ; a brownish antemedial line, somewhat oblique from costa to median nervure ; a faint dark discoidal lunule ; postmedial line brown, excurved from costa to vein 2, then bent inwards to near origin of vein 2, where there is a dark point, then again bent outwards and with a dark point above inner margin ; cilia whitish at tips. Hind wing pale ochreous tinged with fulvous towards termen ; cilia whitish at tips.

*Hab.* ALGERIA, Biskra (Walsingham), 3 ♂ type. *Exp.* 18 mm.

(92 a) *Pyrausta brachypteralis*, sp. n.

♂. Head and thorax rufous ; palpi below and throat white ; mid and hind tibiæ and tarsi white, the fore tibiæ white, with rufous band near extremity ; abdomen pale rufous. Fore wing pale rufous ; a slight dark discoidal lunule ; a postmedial series of fuscous points excurved between veins 6 and 4, then very oblique ; a fine terminal rufous line ; cilia rufous at base, whitish at tips. Hind wing short and rounded, yellowish tinged with rufous, the termen and base of cilia deeper rufous from apex to vein 2.

*Hab.* PARAGUAY, Sapucay (Foster), 2 ♂ type. *Exp.* 26 mm.

(92 b) *Pyrausta sabulosa*, sp. n.

♂. Head, thorax, and abdomen ochreous tinged with rufous ; palpi white at base ; antennæ with long cilia, the shaft with dark rings. Fore wing ochreous tinged with rufous and irrorated with rather large brown scales ; a slight dark discoidal bar ; postmedial line indistinct, dark, excurved between veins 5 and 2, then bent inwards to near origin of vein 2 and again slightly excurved ; a series of black points just before termen ; cilia with a brown line near base. Hind wing pale ochreous slightly irrorated with brown ; an indistinct dark postmedial line excurved between veins 5 and 2, then bent inwards to below end of cell, and

oblique to inner margin; a terminal series of dark striæ; the underside paler, a dark discoidal point, the postmedial line distinct, a terminal series of black points from apex to submedian fold.

*Hab.* MEXICO, Las Vigas (*Schaus*), 1 ♂ type. *Exp.* 26 mm.

(95 a) *Pyrausta costimacula*, sp. n.

♂. Head blackish, the palpi at base and sides of frons white; thorax rufous, the dorsum and dorsal edge of tegulæ blackish; pectus and legs whitish tinged with rufous, the fore tibiæ rufous, the tarsi black ringed with white; abdomen fuscous brown, the anal tuft rufous, the ventral surface whitish tinged with rufous. Fore wing rufous; a small black spot at base of costa; an antemedial black spot in cell and double points at vein 1 and above inner margin; a small black discoidal lunule; postmedial line blackish, with prominent black spot at costa, excurved to vein 4 towards termen, then oblique; cilia brown, white towards tornus. Hind wing whitish tinged with ochreous brown; slight blackish marks on termen at veins 7, 6.

*Hab.* N.E. PERU, Huancabamba, 1 ♂ type, El Porvenir, 1 ♂. *Exp.* 32 mm.

(97 a) *Pyrausta rubrifusa*, sp. n.

♀. Head and thorax ochreous suffused with red; palpi at base, pectus, legs, and abdomen ochreous. Fore wing ochreous suffused with blood-red; a faint dark antemedial line, oblique to vein 1; a blood-red spot in middle of cell and discoidal bar; postmedial line faint, dark, excurved to vein 2, then bent upwards to lower angle of cell and slightly excurved below submedian fold; a faint curved subterminal shade. Hind wing ochreous yellow, with a faint dark subterminal line.

*Hab.* JAMAICA (*Kaye*), 2 ♀ type. *Exp.* 28 mm.

(103 a) *Pyrausta gazalis*, sp. n.

♀. Pale straw-yellow; palpi black at tips; fore tibiæ banded with black at extremities. Fore wing with the basal half of costal area suffused with fuscous; a strong, erect, straight antemedial line; a discoidal lunule conjoined to the dark costal area; postmedial line strong, straight from costa to vein 5, excurved to vein 2, then straight to inner margin; a fine black terminal line; cilia fuscous, with a black line

near base. Hind wing with fuscous discoidal point; post-medial line strong, bent outwards between veins 5 and 2, then retracted to below angle of cell and oblique to inner margin near tornus; a fine black terminal line; cilia with a blackish line near base. the tips tinged with fuscous except towards tornus.

*Hab.* GAZALAND, Chirinda Forest (*Marshall*), 1 ♀ type. *Exp.* 30 mm.

(107 b) *Pyrausta phaopastalis*, sp. n.

♀. Head yellow; palpi rufous, white at base; thorax pale yellow-brown; pectus and legs whitish; abdomen pale fuscous brown, with slight whitish segmental rings, the anal tuft yellow. Fore wing pale yellowish thickly suffused and irrorated with fuscous brown, leaving the costa towards apex and termen yellower; a faint dark spot in end of cell and discoidal lunule; traces of a dark diffused postmedial line, more distinct towards costa, oblique from costa to vein 4, then inwardly oblique; a terminal series of slight dark striae; cilia yellow. Hind wing greyish ochreous suffused with fuscous brown; a slight dark terminal line; cilia yellow; the underside paler, with traces of a curved post-medial line.

*Hab.* BR. E. AFRICA, Nairobi (*Crawshay*), 1 ♀ type. *Exp.* 26 mm.

(126 a) *Pyrausta albogrisea*, sp. n.

♀. Head, thorax, and abdomen grey-white mixed with dark brown, the pectus, legs, and ventral surface of abdomen whiter. Fore wing dark brown irrorated with grey-white; traces of a dark antemedial line defined on outer side by whitish; a dark point in middle of cell and discoidal bar; postmedial line very indistinct, dark, excurved from below costa to vein 3, then incurved and with yellowish spot at submedian fold; a fine white line at base of cilia. Hind wing white slightly irrorated with brown; a slight curved postmedial line; a blackish terminal line, expanding into small spots at the veins; cilia dark at tips; the underside with small black discoidal lunule.

*Hab.* W. COLOMBIA, San Antonio (*Palmer*), 1 ♀ type. *Exp.* 24 mm.

(142 a) *Pyrausta sanguifusalis*, sp. n.

♂. Head, thorax, and abdomen deep ochreous yellow, the head and thorax suffused with blood-red; sides of frons with

white streaks; pectus, legs, and ventral surface of abdomen yellowish white. Fore wing ochreous yellow, the costal area broadly suffused with dull blood-red to beyond middle; broad, almost confluent, diffused, red basal antemedial and postmedial bands, the two latter confluent below the cell; a broad terminal red band with diffused inner edge almost confluent with the postmedial band; cilia yellow. Hind wing white tinged with yellow.

*Hab.* BR. E. AFRICA, Tana R. (*Crawshay*), 1 ♂ type. *Exp.* 16 mm.

(144a) *Pyrausta hæmatidalis*, sp. n.

♂. Deep ochreous yellow; head and thorax partly suffused with blood-red; palpi fulvous, whitish below. Fore wing with the costal area deep blood-red to the postmedial line; three subbasal red spots, almost forming a maculate band; grey spots edged with blood-red at middle of cell and on discocellulars; a V-shaped medial grey band edged with blood-red, the inner arm arising from a spot at middle of cell, the outer arm from beyond the discoidal spot, the two confluent below the cell and expanding in submedian fold, the postmedial line forming the outer edge of this band and continued to the costal fascia as an obsolescent red line slightly bent outwards below costa; a subterminal grey band defined by wavy red lines, its inner edge angled inwards below the costa and at discal and submedian folds; a narrow red terminal band with points on its inner edge; cilia yellowish white, with brown medial line. Hind wing with indistinct diffused brownish patches at lower angle of cell and on inner area; a brown terminal band with diffused inner edge, leaving some yellow on termen; cilia yellow, with brownish tips; the underside with the costal area broadly suffused with brown to beyond middle and conjoined to the patch at lower angle of cell.

♀. Hind wing wholly suffused with fuscous brown, leaving the costal area yellowish to beyond middle.

*Hab.* BR. E. AFRICA, Machakos (*Crawshay*), 1 ♂ type, Stoney R. (*Crawshay*), 1 ♀. *Exp.* 16 mm.

(144b) *Pyrausta hæmatidea*, sp. n.

♂. Head, thorax, and abdomen purplish red mixed with yellowish; palpi white at base; pectus and legs whitish, the fore tibiae banded white and brown; abdomen with white patch on anal tuft above, the ventral surface white. Fore

wing purplish red suffused with leaden grey, the costa and termen yellow; a curved yellow antemedial band defined at sides by red; a blackish discoidal lunule; a yellow postmedial band defined at sides by red, incurved at discal fold, at vein 3 bent upwards to lower angle of cell, then again excurved; cilia yellow slightly tinged with red. Hind wing purplish red suffused with leaden grey, the costal area yellowish to beyond middle; a postmedial yellow band defined at sides by red, oblique to vein 2, where it is almost confluent with a terminal spot in submedian fold, then retracted to below angle of cell, and forming a wedge-shaped patch on inner area; cilia yellow slightly tinged with red.

*Hab.* GERM. E. AFRICA, Ruaha R. (*Neave*), 2 ♂ type. *Exp.* 14 mm.

(145 a) *Pyrausta flavidiscata*, sp. n.

*Syllythria panopealis*, Druce, Biol. Centr.-Am., Het. ii. p. 207 (part.), nec Wlk.

♂. Head and thorax yellow mixed with rufous; pectus and legs white tinged with ochreous; abdomen yellow tinged with brown and with some red near extremity, the ventral surface white. Fore wing yellow, the costal area rufous, the antemedial and postmedial areas suffused with brown, leaving a triangular yellow patch on medial area from subcostal nervure to vein 1, the terminal area tinged with rufous; antemedial line dark, bent outwards below costa, then oblique; a dark discoidal striga; postmedial line dark, oblique towards costa, then obliquely incurved, excurved between veins 5 and 3, then bent inwards to below end of cell, and erect to inner margin; an indistinct, diffused, sinuous subterminal shade. Hind wing yellow; an obliquely curved dark postmedial line from discal fold to tornus, with rufous suffusion before it; the apical area suffused with brown; the underside yellow, a blackish discoidal point, postmedial line blackish, excurved between discal fold and vein 2.

*Hab.* GUATEMALA, Zapote (*Champion*), 1 ♂ type; PANAMA, Chiriqui (*Champion*), 4 ♂, Godman-Salvin Coll. *Exp.* 14-16 mm.

(146 a) *Pyrausta flavibrunnea*, sp. n.

*Syllythria phænicealis*, Druce, Biol. Centr.-Am., Het. ii. p. 208 (part.), nec Hübn.

Head, thorax, and abdomen yellow mixed with brown, the last with yellow segmental lines; palpi white below towards



base; pectus, legs, and ventral surface of abdomen white, the fore legs brown in front. Fore wing yellow tinged with rufous, especially on costal and terminal areas, irrorated and in parts suffused with brown; antemedial line brown, sinuous; a small dark spot in upper part of middle of cell and a discoidal lunule with some brown suffusion beyond it; postmedial line brown, defined on outer side by yellow forming patches below costa and towards inner margin, excurved and minutely dentate from vein 6 to 2, then bent inwards to below end of cell, and angled outwards at vein 1; an indistinct, minutely dentate, brownish subterminal line, with brownish suffusion beyond it; a terminal series of minute dark lunules; cilia with a series of brown points near base and brownish tips. Hind wing yellow tinged with brown except on costal area to the postmedial line, which is brown and oblique from just below costa to termen at submedian fold; the terminal area suffused with brown, narrowing to a point at submedian fold; the termen with a series of minute dark lunules and the cilia with a series of brown striæ near base from apex from vein 2; the underside with dark discoidal lunule, postmedial minutely waved line, excurved from vein 5 to 2, where it terminates, and subterminal shade from costa to vein 2.

*Hab.* MEXICO, Cuernavaca, Morelos (*H. H. Smith*), 2 ♀ type, Godman-Salvin Coll. *Exp.* 22 mm.

(150 a) *Pyrausta perfervidalis*, sp. n.

♀. Head, thorax, and abdomen fulvous yellow suffused with fiery red; palpi fuscous, white below; frons brown, with fine lateral white streaks; pectus, legs, and ventral surface of abdomen whitish. Fore wing fulvous irrorated with fiery red, the costal and terminal areas broadly suffused with fiery red-brown; a diffused curved red antemedial line; a diffused fiery-red discoidal patch with whitish point in centre; postmedial line slightly excurved between veins 5 and 2; a black terminal line; cilia blackish at base, white at tips. Hind wing fulvous red, the terminal area broadly red-brown; an oblique blackish discoidal bar, with oblique line from it to inner margin; an oblique postmedial line from costa to the terminal band at vein 2, slightly bent outwards at vein 5; a fine black terminal line; cilia blackish at base, white at tips.

*Hab.* BR. E. AFRICA, Nairobi plains (*Crawshay*), 1 ♀ type. *Exp.* 18 mm.

(150 b) *Pyrausta prostyialis*, sp. n.

♂. Head, thorax, and abdomen orange-yellow; palpi dark brown, white below towards base; frons with white streaks at sides; antennæ fuscous; throat white; pectus brown in front; ventral surface of abdomen pale yellow. Fore wing yellow tinged with fiery red, especially on terminal area, the costal area suffused with fuscous to the postmedial line; antemedial line dark, angled outwards in submedian fold; a dark discoidal lunule; postmedial line dark, sinuous to vein 2, then bent inwards and obsolescent to below end of cell, and again excurved; a black terminal line; cilia white, with a strong black line near base. Hind wing yellow slightly tinged with red; a blackish discoidal bar; postmedial line blackish, somewhat oblique to vein 2, then bent inwards and obsolescent to lower angle of cell and sinuous to inner margin; a black terminal line except towards tornus; cilia white, with a strong blackish line near base except towards tornus; the underside with the postmedial line incurved at discal fold.

*Hab.* TRANSVAAL, White R. (Cooke), 1 ♂ type. *Exp.* 14 mm.

(151 a) *Pyrausta metachrysalis*, sp. n.

♂. Head, thorax, and abdomen olive suffused with fuscous; palpi white at base; tarsi white; abdomen at sides and below yellowish. Fore wing olive suffused with pale rufous; an oblique antemedial series of indistinct rufous spots; a slight spot at middle of cell and faint discoidal lunule; a deep rufous rather diffused postmedial line, excurved from costa to vein 4, then incurved, defined on outer side by a yellow band. Hind wing deep orange. Underside of fore wing orange, with diffused red postmedial band from costa to vein 4 and diffused subterminal band; hind wing with diffused red subterminal line from costa to vein 2, the termen and cilia tinged with red.

*Hab.* CHILI, Chillan (Elwes), 2 ♂ type. *Exp.* 26 mm.

Subsp.—♂. Fore wing with the suffusion and markings rather darker.

♀. Fore wing suffused with deep chocolate-brown to the postmedial line.

*Hab.* PATAGONIA, Chubut, Valle Lago Blanco, 1 ♂, 5 ♀. *Exp.* 20 mm.

(165 a) *Pyrausta diatoma*, sp. n.

♂. Head, thorax, and abdomen fulvous yellow; palpi rufous, white below at base; pectus, legs, and ventral surface of abdomen white. Fore wing yellow; the costal area tinged with blood-red towards base; an oblique diffused blood-red line from costa beyond middle to middle of inner margin; the termen tinged with blood-red. Hind wing yellowish white; the underside with brownish postmedial shade from costa to vein 3.

*Hab.* NATAL, Estcourt (*Hutchinson*), 1 ♂ type. *Exp.* 18 mm.

(170 a) *Pyrausta rhodoxantha*, sp. n.

*Syllythria tyralis*, Druce, Biol. Centr.-Am., Het. ii. p. 206 (part.), nec Guen.

Head and thorax purplish pink mixed with yellowish; palpi white below; pectus and legs yellowish tinged with red-brown; abdomen yellowish dorsally suffused with purplish red. Fore wing purplish pink; some yellowish at base of inner margin; a yellowish subbasal spot in submedian interspace and an oblique antemedial band from middle of cell to inner margin; a quadrate discoidal spot with some diffused yellowish from it to inner margin; a yellowish postmedial band, excurved to vein 4, then bent inwards to near angle of cell, and erect to inner margin; some slight yellow marks before termen; a terminal brown line from apex to vein 4; cilia brownish white. Hind wing yellowish tinged with brown, the termen crimson from apex to vein 2, on which there is a crimson streak, a brown band before termen from apex to vein 4.

*Hab.* MEXICO, Guadalajara (*Schaus*), 1 ♂ type, Guerrero, Amula (*H. H. Smith*), 1 ♀, Cuernavaca, Morelos (*H. H. Smith*), 1 ♂, Yucatan, Temax (*Gaumer*), 1 ♂, Godman-Salvin Coll. *Exp.* 20 mm.

(173 a) *Pyrausta tenuilinea*, sp. n.

♂. Head brown; thorax brown suffused with purplish pink; pectus, legs, and abdomen whitish suffused with brown. Fore wing purplish pink; a curved yellowish antemedial line; a brown discoidal striga; postmedial line fine, yellowish, excurved and slightly sinuous to vein 4, then retracted to below end of cell and again excurved; a terminal series of minute dark points; cilia brown. Hind wing

whitish suffused with brown; some purplish pink on terminal part of vein 2; a fine black terminal line; cilia whitish.

*Hab.* W. COLOMBIA, El Credo, 1 ♂ type. *Exp.* 14 mm.

(183 a) *Pyrausta rubescentalis*, sp. n.

Head and thorax yellowish suffused with dull red; palpi fulvous, white below; frons with lateral white streaks; abdomen ochreous dorsally suffused with fuscous; pectus, legs, and ventral surface of abdomen white. Fore wing dull crimson more or less strongly suffused and irrorated with fuscous; the costa towards apex, termen, and cilia bright yellow; a slightly curved yellow antemedial line; slight dark spots at middle of cell and on discocellulars; postmedial line yellow, excurved and slightly waved from costa to vein 3, then retracted to below end of cell and sinuous to inner margin. Hind wing yellowish more or less strongly suffused with fuscous, the termen reddish, the cilia yellow; traces of a curved yellowish postmedial line between veins 5 and 2; the underside with faint dark discoidal spot, the postmedial line traceable throughout, excurved between veins 5 and 2.

*Hab.* PARAGUAY, Sapucay (*Foster*), 1 ♂; ARGENTINA, Florenzia, Gran Chaco (*Wagner*), 2 ♂ type. *Exp.* 16 mm.

(183 d) *Pyrausta rhodope*, sp. n.

♂. Head and thorax yellow mixed with purplish red; palpi red, white at base, the third joint brown; pectus and legs white, the fore and mid tibiae and the tarsi banded with red; abdomen with the basal segments yellowish white, the terminal segments red with a dorsal silvery-white spot at base of anal segment, the ventral surface white. Fore wing yellow, the costal area suffused with purplish red, some purplish red on inner area near base; antemedial line purplish red, oblique to submedian fold, then incurved; an annulus in middle of cell and elliptical discoidal mark defined by purplish red; the outer part of medial area suffused with purplish red to the postmedial line, which is oblique to discal fold, then waved and incurved below vein 3, a curved band of red suffusion beyond it from costa to termen at discal fold; a terminal series of brown points; cilia purplish red. Hind wing white, the terminal area suffused with brown, broadly at costa, narrowing to tornus. Underside white, the fore wing with reddish suffusion on costal half of terminal area.

Ab. 1. Fore wing uniformly suffused with purple-red, the outer medial area somewhat darker.

♀. Abdomen without the silvery-white spot on anal segment; fore wing nearly uniform pale red; hind wing tinged with reddish except on basal area.

*Hab.* CUBA, Santiago (*Schaus*), 5 ♂, 3 ♀ type. *Exp.* 24 mm.

(193 b) *Pyrausta heliothidia*, sp. n.

♂. Head and thorax black-brown mixed with some ochreous; abdomen black-brown with slight ochreous segmental lines; pectus, legs, and ventral surface of abdomen yellow irrorated with black. Fore wing grey-brown thickly irrorated with black-brown. Hind wing yellow; a black fascia in lower part of cell, with some greyish hair on it from near base to just beyond the cell, and a similar fascia above inner margin from near base to tornus; a black subterminal band diffused on apical half to the black terminal line; cilia blackish mixed with yellow. Underside ochreous yellow; fore wing with black spot in middle of cell and discoidal bar.

*Hab.* PERU, Oroya, 1 ♂ type. *Exp.* 18 mm.

(211 a) *Pyrausta albescens*, sp. n.

♀. Head, thorax, and abdomen black-brown mixed with whitish, the pectus, legs, and ventral surface of abdomen with more white. Fore wing pale bronze-brown, the terminal area whitish, some blackish suffusion on basal inner area; a black streak below extremity of cell and spot at upper angle; some slight black streaks beyond lower angle of cell; a black terminal line. Hind wing whitish, the inner area suffused with brown; a blackish-brown postmedial band between veins 6 and 2 and a subterminal band; a black terminal line. Underside whitish suffused in parts with brown; fore wing with brown discoidal bar.

*Hab.* PERU, Oroya, 1 ♀ type. *Exp.* 18 mm.

(214 a) *Pyrausta holophæalis*, sp. n.

♀. Black-brown with a metallic gloss; frons with lateral yellow streaks; pectus and legs pale brown; fore tarsi yellowish; wings without trace of markings.

*Hab.* CHINA, Foo-chau (*Leech*), 1 ♀ type. *Exp.* 22 mm.

(214 b) *Pyrausta flavicollalis*, sp. n.

♀. Greyish fuscous; palpi at base, back of head, tegulæ, pectus, legs, ventral surface, and extremity of abdomen bright yellow; fore tibiæ and tarsi fuscous in front. Fore wing finely pencilled with black and bluish-white scales except costal and terminal areas.

*Hab.* ARGENTINA, Florenzia, Gran Chaco (*Wagner*), 1 ♀ type. *Exp.* 18 mm.

[To be continued.]

II.—Notes on the Lamellicorn Genus *Popillia* and Descriptions of some new Oriental Species in the British Museum.  
By GILBERT J. ARROW.

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IN Dr. Kraatz's list of the species of *Popillia* in the Deutsche ent. Zeitschr. 1892 (p. 303), lamentable confusion was introduced into the classification of this difficult genus. Dr. Kraatz's collection has happily become accessible, and the specimens of *Popillia* from India and China have been kindly sent to me for examination by Herr Schenkling. Hence the present notes. Having also examined the types of Hope and Newman in London and Oxford, and a number of Fairmaire's in the Paris Museum, I am able to at least partially correct the confusion which has resulted from the inadequate descriptions of all those writers. Not only has Kraatz misapplied the names given by all his predecessors mentioned, but he has burdened his catalogue with numerous names of colour-varieties, which in several cases are not varieties of the species to which he has assigned them. He has not avoided the repetition of the same name for these varieties (e. g., *cupricollis* occurs three times and *testaceipennis* twice), and so evidently did not contemplate their use as specific names in any case; and as they are merely descriptive of the colours of individual specimens, and are sometimes left to explain themselves without any attempt at definition, they are evidently not applicable as specific names. This is also the case with the many varietal names introduced by Ohaus, who has a var. *testaceipes* of *P. complanata*, Newm. (the new species *P. pulchripes* of the present paper),